

ball bearings, being in a state of rotating on a shaft or a support in principle, tend to generate noise. In particular, in an information home appliance mounted with an HDD (hard disk drive, which are recently becoming denser, a motor for driving the HDD at a higher speed generates larger noise from the bearing to cause a noise problem. Moreover, a bearing formed using ball bearings tends to cause a large NRRO (non-resonant rotary oscillation). This causes read/write errors in a dense HDD.

Please replace the paragraph beginning at page 1, line 19, with the following rewritten paragraph:

--Therefore, in recent years, development work has been increasing in connection with a bearing known as a hydraulic bearing (or a dynamic pressure bearing) in which oil is used as a lubricant. In the hydraulic bearing, a lubricating oil filling a space between a shaft and a sleeve (a supporter of the shaft) provides rotation without causing the sleeve and the shaft to come into contact each other. This hardly produces noise in principle with a trace or circumference of the rotating shaft being almost round to cause a considerably smaller NRRO compared with that of the bearing with the ball bearings.--

Please replace the paragraph beginning at page 2, line 5, with the following rewritten paragraph:

--FIGURE 1 is a cross sectional view showing a principal part of a related spindle motor. The spindle motor 200 is provided with a hydraulic bearing assembled with the following being taken as prime components, a sleeve (a support) 1 formed with a shaft body inserting hole 1a, a frame 2 securing the lower side of the sleeve 1, a cylindrical shaft body 3 having a cross sectional form of an inverted T and being inserted into a space formed by the shaft body inserting hole 1a of the sleeve 1, with a clearance being created between the shaft body 3 and inner walls of the sleeve 1 and the frame 2, a hub 4 mounted on an upper side of the shaft body 3 protruded the sleeve 1, and oil 5 filling the above clearance.--

Please replace the paragraph beginning at page 2, line 25, with the following rewritten paragraph:

--The core 6 has a structure in which a plurality of core materials 6a are laminated, the prime material of which is a doughnut-shaped magnetic steel sheet. For the core material 6a in the related art, 0.35mm thick magnetic steel sheets generally much in demand were used with four such sheets being laminated to constitute the core 6.--

Please replace the paragraph beginning at page 3, line 6, with the following rewritten paragraph:

--In recent years, development has been carried out so that the HDD is mounted on a portable information device. This requires the developer to downsize the spindle motor as a power source for the HDD. Meanwhile, for an electric power supply, a battery is used with which a stable supply of electricity for a long service time is difficult to obtain. Hence, the smallest possible consumed power is required for electronic parts to be mounted to make it possible for the consumed power of the spindle motor to also be made the smallest possible. Therefore, in the related art, based on a generally known fact that a core with a larger volume consumes less power, the core volume must be enlarged for reducing power consumption. In addition, in the related art, mounting of a spindle motor on a portable information device was not seriously considered in view of the fact that the spindle motor was mainly to be used for a device which allows a stable power to be supplied from a stable electric supply. Thus, developers of the spindle motor were not so conscious of power consumption of the spindle motor.--

Please replace the paragraph beginning at page 5, line 17, with the following rewritten paragraph:

--The magnetic steel sheet is made to have a thickness of 0.2 mm because it was found that a smaller thickness of the magnetic steel sheet forming the core reduces consumed power, i.e., consumed current, as will be explained below in detail in connection with the description of a preferred embodiment. The thickness of 0.2 mm is preferable because this thickness is the lower limit of currently available magnetic steel sheet in providing adequate strength for forming the riveting section.--

Please replace the paragraph beginning at page 7, line 10, with the following rewritten paragraph:

--In the following description, a preferred embodiment of the present invention will be explained in detail with reference to the attached drawings. It is, however, to be understood that the present invention is not limited by the embodiment.--

IN THE CLAIMS:

Kindly amend claims 1-7 as follows:

1. (Amended) A spindle motor comprising: a rotary body mounted to undergo rotation about an axis of rotation; a